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HYBRIDOMA Volume 2, Number 1, 1983 Mars Ann Lichett, Inc., Publishers

> Ten-Minute Presentations from the Second Annual Congress for Hybridoma Research February 6-10, 1983

IN VITEO STIMULATION OF ETHYROCYTES AS A SOURCE OF RUMAN ROSSOCIONAL ANTIBODIES STIME THE EDV-HISPIDONA TECHNIQUE. Boosts Rosber and John C. Roder, Department of Microbiology & Emuscalogy, Quesa's University, Ringsion, Connds. R/L 186.

He have previously shown that human hybridosse can be constructed with antigen-specific, Potein-Berr vicus transformed call lines by funton with EE-4, a 4-thioguanine and enabels resistant lymphoblasteld call line (Kerber, D; Lagarde, Ay and Roder, J.C., Proc. Hatt. Acad. Sch. 79:6651-6455, 1982). The resulting hybride were exable (31 pr), have high closing efficiencies (641), divide repidly (C 24 hr), and produce reseasable levels of specific antibody (5-7 ug/ml). In this study we compare the weefulness of specific antigons and polyclonel activators in etimieting cultures prior to fuelos. Stimulation of peripheral bland lymphocyte (PBL) guitates from totame totald immunised denote with Spatial-Borr views yielded calls with such higher frequencies of hybrid foraction (36 m 10") compared to unoticulated fil or calls cultured with Polaveed mitagen (PMI) er totome tomeld (II) entigen. The propertion of hybridenes (approximately 12) producing outl-TT autibody was statler in 187 and IT attachet cultures. A parked incresse in immeglebulin secretion was observed after hybridization and pro-selection of EST subcultures for high enti-IT production prior to fuolog resulted in a five fold increase in TT specific hybeidenen (p C.001). Most (10/21) specific hybride produced IgH anti-TT whereas few (1/21) produced IgG anti-TT, possibly due to the impature stage of differentiation in EST etimolated percental calls. The ability to choose an antigen, immedian a busen subject and expend the rare entigen specific & colle from PBL, to vitro, with EST, prior to fuelon, should yield an Increasing spectrum of bumon senectional antibodies for diagnostic, therapoutic or books studios.

This work was supported by the Matienal Science and Engineering Research Council of Canado. Senate Mester was a research student of the Matienal Cancer Institute of Canada.

CELL SURFACE ANTIGENS DEFINED BY FOUR MONOCLONAL ANTIBODIES RAISED AGAINST RG-Ia CELLS. C.I. Civin, C. Brovall, L.C. Strauss, J.F. Schwartz and J.M. Shaper. The Johns Hopkins Oncology Center, Baltimore, MO 21205

Libraries of monocional antibodies (McAb) specific for immature as well as maidre human lymphold cells have been described. We and several others have developed McAb against mature human granulocytic and monocytic cells. In addition, we have recently characterized 4 McAb, anti-Ny-10-13, raised against the immature (pre-nyelohiast) granulocytic cell line EG-Is. Anti-Ny-10 reacts with protein with an apparent molecular weight of about 110 kilodalton, and anti-Ny-11 about 230 kilodalton. Me have not yet been able to detect the Ny-12 or Ny-13 antigens using KG-Is cell surface radioidination and immunoprecipitation. The cell surface expression of these 4 antigens and the Ny-1 antigens as determined by indirect immunofluorescence, on several cell types is shown below:

Cell type	!br:1	My-10	Mx:11	Mx-12	Mr.13
KG-14	-	•	•	•	
KG-İ		•	•	•	•
U-937	•		•	•	•
Doudl	•	-	•		•
K-562	•	•		•	•
HEL	-	•	•	•	•
M-I	•	-		-	-
HL-60	•	-	-	-	-
Granulocytes	•	•		-	-
Red Cells	•	•	-	•	
Platelets	•	-		•	
Monocytes	-	•	•		
Lymphocytes (8,1)	-	•	•	-	-
Marrow Leukocytes	>50%	<58	251	458	-101
ANLL Patients	501	301	601	201	51
ALL Pollents	01	252	401	51	103
My-1 is not expresse cells (CFE-GM). Our	recent d	ito indica	te. howeve	er. that	My-10.
-31, and -13 are exp gent are expressed o	ressed on	CFC-GN.	Thus, the	se novel	anti-
ents of the program	of human	Iranulocyt	• differe	ntiation.	фон-

Supported in part by NIM grants CA 32316, CA 06973, CA 090-7104, and grant sixils from the Council for Tobacco Research USA, Inc. C.I. Civin is the receptent of an ACS Juntor Faculty Clinical Fellowship,



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edited by ZENON STEPLEWSKI

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